

95-367328/48 F07 SOLB/ 94.04.25  
 SOLBACH L \*DE 4414324-A1  
 94.04.25 94DE-4414324 (95.10.26) D06F 43/00, 43/02  
 Clothing chemical dry cleaning appts. - has monitors for temp. and pressure and air moisture content for control of the drying operation together with a throttle  
 C95-159868  
 Addnl. Data: SOLBACH L

The chemical dry cleaning assembly, for clothing has a throttle (9) in the air recirculation system between the fan (7) and the cooling register (11). A gas measurement and control system (23) is connected to the temp. monitor (25) in the air flow (5) at the outlet side (3) of the drum (1), and to a pressure monitor (27), also with a link to the heating register (13). The heating register (13) is switched on and off according to the air flow (5) temp. and the throttle (9) is activated. A monitor (41) in the drum (1) gives a non-contact measurement of the temp. of the material being processed and is connected to the gas measurement and control (23) system. A controlled water contact unit (31) delivers water (45) to the drum (1) through a drying control (17) between the drum (1) and it.

Also claimed is a control operation where the air flow vol. is constantly varied according to the concn. of solvent vapour in the air

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flow, taken at least from the temp. and pressure of the air flow at the outlet side of the drum. The temp. at the inlet side of the drum is lowered if the outlet temp. is higher than a set value. The temp. of the material being processed is measured without contact. When the material temp. rises, the heating register is disconnected and the cleaning process is stopped when the gas concn. in the air flow drops by more than a given value. Water pptd. from the air flow is caught before the cooling register, and returned to the processed material as a vapour in the drum when the air moisture content of the material drops below a certain value. The air moisture content is measured as well as the temp. and pressure.

#### ADVANTAGE

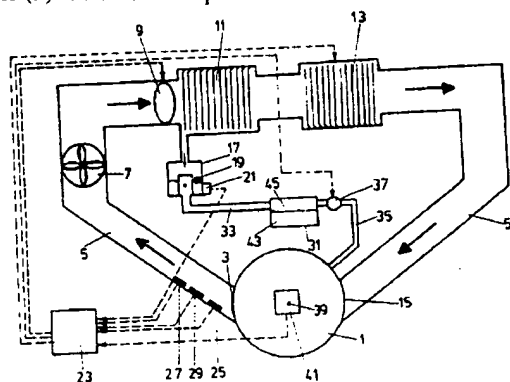
The system gives an optimum drying action over the whole of the drying cycle time span, to give a low solvent concn. of less than 280 ppm. at the outlet side of the drum, and reduce the drying time.

#### PREFERRED FEATURES

An additional air moisture content monitor (29) is at the outlet

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side (3) of the drum (1), in the air flow (5), connected to the gas measurement and control system (23). The gas measurement and control system (23) is connected to a switch (21) at the drying control (17), triggered by a float (19). The material temp. monitor (41) is at the door to the drum (1), on the same plane as the drum (1) axis (39). The throttle (9) is a throttle flap or throttle valve.



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